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## NOTICE OF ALLOWANCE AND FEE(S) DUE

52349

-

08/31/2009

WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503

EXAMINER

NGUYEN, JOSEPH H

ART UNIT PAPER NUMBER

2815

DATE MAILED: 08/31/2009

1	ADDI ICATION NO	ET DIG DATE	TID (TIME) THE DATE OF	A THORNEN DOCKETING	GOVERNA CLERONANO
	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/554,541	10/25/2005	Hiroshige Hirano	2005_1640A	7574

TITLE OF INVENTION: FERROELECTRIC MEMORY DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further	correspondence includir ed below or directed oth	g the Patent, advance of	THE THE AND PUBLICATI  THE	naintenance fees wi	II be ma	illed to the current	correspondence address as
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1030 15th Street Suite 400 East		I he	papers. Each additional paper, such as an assignment or formal drawin have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an eaddressed to the Mail Stop ISSUE FEE address above, or being fa transmitted to the USPTO (571) 273-2885, on the date indicated below.				
Washington, DC	20005-1503						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	4	ATTORN	EY DOCKET NO.	CONFIRMATION NO.
10/554,541 TITLE OF INVENTION	10/25/2005 T: FERROELECTRIC MI	EMORY DEVICE	Hiroshige Hirano		20	005_1640A	7574
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nonprovisional	NO	\$1510	\$300	\$0	<b>_</b>	\$1810	11/30/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
NGUYEN,	JOSEPH H	2815	257-295000	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	condence address (or Cha B/122) attached. dication (or "Fee Address' 22 or more recent) attach c ND RESIDENCE DATA less an assignee is identich in 37 CFR 3.11. Comp	nge of Correspondence  ' Indication form ed. Use of a Customer  A TO BE PRINTED ON '	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornished, no name will be THE PATENT (print or type data will appear on the patent as substitute for filing and (B) RESIDENCE: (CITY)	vely, e firm (having as a rigent) and the names rneys or agents. If no printed.  e) atent. If an assigned assignment.	member s s of up to o name i	a 2oos 3	ocument has been filed for
Please check the appropriate.  4a. The following fee(s)  Issue Fee  Publication Fee (N		41	b. Payment of Fee(s): (Plea A check is enclosed.  Payment by credit can	se first reapply any	y <b>previo</b> i	usly paid issue fee s	up entity Government
	# of Copies		☐ The Director is hereby	authorized to charge	e the rea	uired fee(s), any def	iciency, or credit any extra copy of this form).
• •	ns SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	rired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regist	tered atto	orney or agent; or the	e assignee or other party in
Authorized Signature	***			Date			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this buritiginia 22313-1450. DC 813-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the DOOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 m idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public inutes to nments o rademar SEND T	which is to file (and o complete, including on the amount of tink Office, U.S. Departo: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/554,541	10/25/2005	Hiroshige Hirano	2005_1640A	7574		
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WENDEROTH,	LIND & PONACK	NGUYEN, JOSEPH H				
1030 15th Street,	N.W.		ART UNIT	PAPER NUMBER		
Suite 400 East Washington, DC 2	20005-1503		2815 DATE MAILED: 08/31/200	9		

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 274 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 274 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/554,541	HIRANO, HIROSHIGE			
Notice of Allowability	Examiner	Art Unit			
	JOSEPH NGUYEN	2815			
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this a or other appropriate communicat IGHTS. This application is subject and MPEP 1308.	application. If not included ion will be mailed in due course. <b>THIS</b>			
1. This communication is responsive to the amendment filed	<u>on 5/4/2009</u> .				
2. ☑ The allowed claim(s) is/are <u>1-10</u> .					
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		bly complying with the requirements			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>					
<ul> <li>5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to</li> <li>6. ☐ DEPOSIT OF and/or INFORMATION about the depo</li> </ul>	son's Patent Drawing Review (PT . s Amendment / Comment or in the .84(c)) should be written on the dra he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIA	e Office action of wings in the front (not the back) of 21(d). L must be submitted. Note the			
Attachment(s)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5.</li></ol>	• •			
	Paper No./Mail [	Date			
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. Examiner's Amendment/Comment				
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. 🛛 Examiner's State	8. 🛛 Examiner's Statement of Reasons for Allowance			
	9.  Other				

7.

### **DETAILED ACTION**

### Allowable Subject Matter

- 1. Claims 1-10 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The reference (s) of record do not teach or suggest, either singularly or in combination at least the limitation of "each respective upper electrode of each respective memory cell capacitor of the plurality of memory cells that are only arranged along the second direction forms a continuous plate electrode covering only the respective independent lower electrodes of each respective memory cell capacitor of the plurality of memory cells that are only arranged along the second direction, and wherein the width of each respective upper electrode in the first direction is narrower than the width of each respective ferroelectric layer in the first direction " for claim 1, "each respective upper electrode of each respective memory cell capacitor of the plurality of memory cells that are only arranged along the second direction forms a continuous plate electrode covering only the respective independent lower electrodes of each respective memory cell capacitor of the plurality of memory cells that are only arranged along the second direction, wherein a position of one edge along the second direction of each respective upper electrode substantially aligns with a position of one edge along the second direction of each respective ferroelectric layer" for claims 5 and

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Art Unit: 2815

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2815

#### Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (571) 272-1734. The examiner can normally be reached on Monday-Friday, 8:30 am- 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/J. N./ Examiner, Art Unit 2815 /Kenneth A Parker/

Supervisory Patent Examiner, Art Unit 2815